



# CEMB<sup>®</sup> USA



Garage equipment division



**PRODUCT CATALOG**

2016

Wheel Balancers - Tire Changers - Wheel Alignment

**CEMB® USA**  
**1-678-717-1050**  
**[www.cemb-usa.com](http://www.cemb-usa.com)**





## CEMB® ITALY

CEMB® is located in Mandello del Lario on the east shore of Lake Como, not far from Milan's main airports. The Company building with the management offices as well as the technical, commercial and administrative departments, the show rooms and meeting/training rooms is set on an area of 100,000 ft².

The departments for the production of industrial balancing machines and instruments for vibration analysis are also housed in the same building.

A second manufacturing unit, located in an area of 125,000 ft², is involved with the batch production of wheel balancing machines for vehicle wheels, alignment units and testing lines.

The CNC machinery used by CEMB® in the production phase are the very best the market has to offer. These are machines embodying the latest technological developments, exclusively with numerical control. Using machines of this quality is the only way CEMB® can guarantee total control over the quality of the critical parts on the balancing machines. Moreover the machines tools are continually being renewed in order to achieve the continued and constant manufacturing of high precision components which has always distinguished CEMB®'s quality manufactured products.



## CEMB® USA

Established in 1978, BL Systems inc / CEMB® USA is a CEMB® owned US Company located in Gainesville (Georgia) near Lake Lanier, one hour North East of Atlanta (Georgia).

The name BL Systems was derived from the owner and founder's name, **Buzzi, Luigi**.

CEMB® has been selling garage and industrial balancing equipment in the US since 1969. Most garage equipment in the earlier years were sold through US companies under private label. Today we still continue to sell to many US companies under private label as well as our own name. There are many end users throughout the US and Canada unaware that the manufacturer of the equipment they have been using for many years is in fact CEMB®. Currently we have a complete sales force of representatives and service centers throughout all of the US to help support our wheel service lines of wheel balancers, tire changers and wheel alignment equipment.



**ITALIAN HEART:** all the parts influencing the quality of our wheel balancers are manufactured at CEMB® facilities through appropriate machinery. The tolerances used are the most accurate on the market. An accurate and constant balancing is maintained through time.

### VDD - VIRTUAL DIRECT DRIVE:

Thanks to the experience in the sectors of industrial balancing and vibration analysis CEMB® developed the new patented device called Virtual Direct Drive.

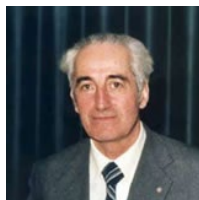
With VDD the most economic wheel balancer of CEMB® range wins in speed and accuracy against any other model of the competitors!



# 1946



## A COMPANY, AN ENTREPRENEUR



In 1946 Luigi Buzzi designed the first balancing machine: a revolutionary solution he covered by patents. From 1946 to 1949 he built up the production of mechanical resonance type balancing machines and stroboscopic types came later. In 1952 came the first production of balancing machines for motor vehicle wheels. In 1960 he encouraged the use and construction of an R&D department for the rapidly growing field of electronics: CEMB® is the first Italian Company and the second in the world to design and manufacture wheel balancing machines.

The research and the continuous technical innovation are the reasons that guarantee CEMB®'s main role in both the garage and industrial fields of balancing. CEMB® is today the only Company in the world to manufacture in both sectors of balancing equipment. Also, that gives CEMB® an evident technical and quality advantages over competitive manufacturers.



## A team of specialists at customers' service.

CEMB® offers an extensive sales and technical service network in over 80 countries throughout the world. Training courses covering all problems of vibration technology, balancing and maintenance are held by qualified staff at CEMB® headquarters in Mandello del Lario (Italy) and Gainesville GA (USA) or at customer's own premises.





## 25 THINGS YOU DIDN'T KNOW ABOUT CEMB®

1. CEMB® is one of the largest garage wheel service equipment manufacturers in the world and they have been in the garage equipment business **since 1946**.
2. They have been selling equipment in the **United States** for more than **45 years**, mostly under private label.
3. In 70 years CEMB® has built wheel balancers, tire changers and wheel alignments under more than **30 different private labels** all around the world, most of which are **very recognizable American, Italian, French, German and Japanese brands**.
4. Distributors may have sold (or are selling) CEMB® equipment and end-users may even be using a CEMB® product and they are unaware of it.
5. CEMB® in the 1970's was the first company in the world using "**OK**" on its balancer when the wheel was balanced.
6. In early 80's CEMB® built a **tire changer/balancer combo** named "Jolly".
7. In 1998 CEMB® invented and patented the real industrial "roller" to measure the **tire uniformity**.
8. CEMB® invented and patented the **automatic entry** of dimensions of the wheels and the system to apply adhesive counterweight using the automatic arm.
9. CEMB® invented the **fixed shaft** automotive wheel balancer, which it still uses today.
10. Between 1975 and 1978 CEMB® invented and patented diagnostic systems to **test suspensions and shock absorbers**.
11. CEMB® is the only company in the world manufacturing **rust-proof cabinet** wheel balancers.
12. CEMB® is the only balancing machines manufacturer in the world with **three different specialized balancing divisions**.
13. CEMB® wheel alignment equipment, only recently introduced in the United States, is already a major player in that product line.
14. CEMB® is the only manufacturer in the world to make both garage and automated assembly line wheel service mounting and balancing equipment, as well as tire matching, diagnostic and tire uniformity testing machines.
15. You will find CEMB® and Hofmann® assembly line equipment throughout the world in the plants of automobile and tire manufacturing companies.
16. CEMB® balances everything in the transportation industry: bus, truck, airplane wheels and jet engine rotors to high speed train wheels and axles.
17. In the automotive industries besides wheels, tires and alignment service, they also sell equipment to OEM manufacturers to balance and mill **disc brake rotors** and to balance **engine crankshafts, drive shafts, flywheels, brake drums, clutches, pulleys, radiator fans, electric motors and turbochargers**.
18. Over **70 million brake discs** per year are balanced on CEMB® balancers.
19. Over **50 million wheels** have come thru assembly lines using CEMB® automatic equipment to mount, inflate, balance and tire match wheels, as well as tire uniformity and eccentricity testing.
20. Over **2 million drive shafts** have been balanced on CEMB® balancers.
21. Over **10 million clutches** have been balanced on CEMB® balancers.
22. CEMB® garage wheel balancers are used by famous Italian and Korean tire manufacturers for their **Formula 1** and **DTM motorsport** championships.
23. CEMB® USA is one of the few wheel service companies that still offer a full one year onsite labor warranty on most of their equipment products.
24. CEMB® USA is also one of the few companies that test and assemble all their equipment before shipping.
25. CEMB® USA, unlike most other companies, has a live person answer their phones and either handles your call directly or puts you in touch with someone who can.



CEMB® is the only company in the world manufacturing balancing equipment for 3 different divisions, with great technical advantages coming from the synergy of all those sectors.



**Industrial balancers**  
division



**Garage equipment**  
division



**Vibration analysis**  
division



## INDUSTRIAL BALANCING MACHINES DIVISION

CEMB® manufactures and markets a wide range of industrial balancing machines.

**Vertical balancers** with balancing on one or two correction planes, for rotors weighing a few grams up to 3,000 kg (6,600 lbs).

**Horizontal balancers** with joint drive or belt drive for rotors from 10 g (0.35 oz) up to 100,000 kg (220,000 lbs).

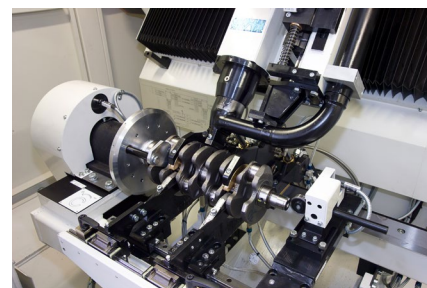
All balancing machines can incorporate devices for measuring vibrations and automatic correction of the unbalances.

The mechanical structure and electronic control modules are designed to work under the most severe operation conditions and they are also suitable for large batch production.



Examples of balancing machines produced by CEMB®:

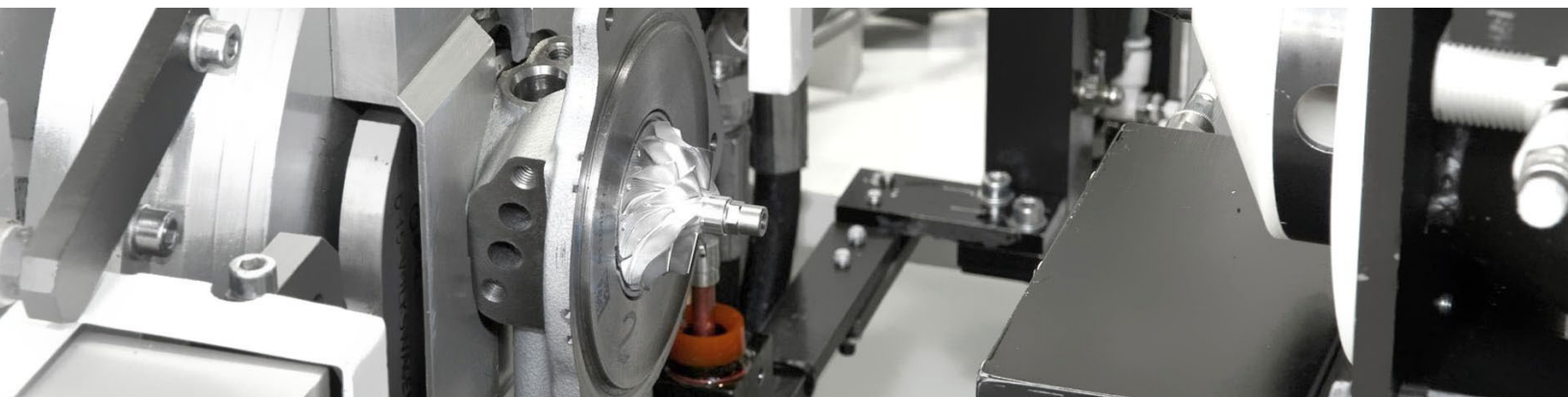
- Turbochargers
- Brake discs
- Crankshafts
- Brake drums
- Clutches
- Fans
- Flywheels
- Pulleys
- Pumps
- Electric motors
- Rims, wheels and tires
- Train and airplane wheels
- Balancing machines for aircraft industry



In Worms (Germany) another company of the CEMB® group, Hofmann® Maschinen und Anlagenbau GmbH, manufactures balancers and testing machines for industrial applications:

- machines for measuring **tire uniformity**
- machines for **testing rims and tires**
- automatic systems for **mounting, inflating** and **balancing** rims and tires in series
- special machines for balancing every type of rotor

CEMB® strengthened its position in the industrial field thanks to Hofmann®'s technical experience and contacts with all the major vehicle and tire manufacturing companies, along with the manufacturing and commercial synergies, which benefits both companies.







CEMB® can provide a full range of technical publications, containing a large number of monographies on vibrotechniques and maintenance. It is also possible to arrange for tailor-made courses at customer's premises. At the end of each course, a certificate of attendance is issued.

## VIBRATION ANALYSIS AND PORTABLE EQUIPMENT DIVISION

CEMB® designs and manufactures a full range of equipment for vibration measuring and correction of the unbalances on rotating machines.

The instrumentation for **continuous monitoring**, based on microprocessors of the latest generation, allows the users to implement powerful and flexible monitoring systems, simplifying the presetting of the measuring ranges and the alarm levels.

Portable instruments allow easy and accurate solving of any vibration problem on machines during operation: vibration measuring, balancing by means of memorized programs, **analysis of vibrations** at the end of diagnostic, ability to print individual customer certificates.



- **Multichannel vibrometers**, analyzers, balancers, tachometers for vibration displacement, speed and acceleration measurement
- **Vibration monitoring equipment**
- Multichannel modular systems for monitoring of vibration, displacement, expansion, eccentricity, speed and temperature
- Advanced systems for the **protection of rotating machines**
- **Transducers** sensor for speed, acceleration, proximity, expansion and vibration measurement
- Vibration **transmitters**

CEMB® devotes particular attention to the after-sale technical assistance in order to assure a complete customer's satisfaction.

CEMB® not only provides for all the support needed in the installation process of its equipment, but it also assures the presence of specialized personnel for checks of all system components, all the way to a turnkey delivery.





CEMB® is the only company in the world manufacturing **rust-proof cabinet wheel balancers** and **pneumatic locking truck wheel balancers**.

## GARAGE EQUIPMENT DIVISION

CEMB® has specialized since 1946 in the design and production of balancing machines in a constant search of accuracy, reliability and ease of use. CEMB® offers innovative, patented solutions and the widest range of products in the world.

- **Wheel Balancers** for motorcycles, cars, trucks and buses complete with high precision centering adaptors of the wheels: CEMB® offers the most diverse and complete range available on the market!

The excellent performances of every CEMB® wheel balancer are the result of the special attention given to the creation of every component of the machine: all the parts influencing the quality of our balancing machines. CEMB® balancing machine components are manufactured inside the company's factory, through the use of machineries which are expressly developed for this purpose and using the most accurate tolerances on the market. In this way CEMB® guarantees extreme accuracy of balance readings and repeatability.

- Electro-pneumatic and automatic **Tire Changers**.

All the CEMB® tire changers semiautomatic, automatic or leverless are characterized by a robust and compact structure. In that way we can guarantee extreme durability. These characteristics, along with high technological content, make CEMB® tire changers the ideal solution for the professional.

- **Wheel Alignment** for cars and trucks, based on latest technology, original and patented innovations.
- Integrated and modular systems for computerized **diagnostics of motor vehicle brake and suspension units** (not available in the US).
- Extremely high-tech **industrial systems** for mounting, inflating, matching, bead seating, optimizing, balancing, uniformity and eccentricity. All these stations are integrated in a single automated line and are in use by major worldwide vehicle and tire manufacturers.







[www.cemb-usa.com](http://www.cemb-usa.com)



**Garage equipment division**



**MADE IN ITALY**



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**Garage equipment division**

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**CEMB® USA**  
BALANCING MACHINES

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